#### MARKED UP COPY SHOWING CHANGES MADE

#### PLANT PATENT APPLICATION

## **TitleTITLE**: 'SWEET THING' MAGNOLIA

#### **Inventors**INVENTORS

[0001] Boyd III, Fernando Campbell, (460 Tenpenny Rd., Morrison, TN 37357)

Dodson III, George L., (802 Greenbrier Drive, Murfreesboro, TN 37130)

#### Field of the Invention

#### LATIN NAME

[0002] Magnolia virginiana var. australis

#### FIELD OF THE INVENTION

[0003] The present invention comprises a new and distinct cultivar of *Magnolia* virginiana var. australis, and referred to by the cultivar name 'Sweet Thing'.

#### **Background of the Invention**

#### **BACKGROUND OF THE INVENTION**

[0004] This new dwarf cultivar of *Magnolia virginiana var. australis*, the 'Sweet Thing' magnolia, was originally discovered by George L. Dodson III, in a group of *Magnolia virginiana var. australis* seedlings planted at <del>Sleepy Hollow Nursery, 3506 Harrison</del> Ferry Road, McMinnville, TN 37110, in 1990. Those responsible for this new cultivar are

George L. Dodson III of Sleepy Hollow Nursery and Fernando Campbell Boyd III of
Boyd Nursery. The initially discovered tree is still growing in a cultivated area at the
Sleepy Hollow Nursery. Fernando Campbell Boyd III collected seed on the farm at 3506
Harrison Ferry Road, McMinnville, TN from a group of mature, unnamed Magnolia
virginiana var. australis trees in the fall of 1988. These seeds were germinated and
grown for one growing season at 460 Tenpenny Road, Morrison, TN by Fernando
Campbell Boyd III. Then the 1-year-old seedlings were transplanted to the farm on 3506
Harrison Ferry Road, McMinnville, TN in the spring of 1990. It was observed by George
L. Dodson III that there was one seedling in this block of Magnolia virginiana var.
australis that exhibited a distinctively different growth habit from the rest of the
seedlings in that block of trees. This selected seedling exhibited an attractive, denser,
more compact and uniform branch structure. George L. Dodson III evaluated this selected
seedling for 5 years.

[0005] Those responsible for this new cultivar are George L. Dodson III and Fernando Campbell Boyd III. The initially discovered tree is still growing in a cultivated area at 3506 Harrison Ferry Road, McMinnville, TN 37110.

[0006] It was immediately recognized that the new cultivar, 'Sweet Thing', was distinctively different in growth from the other seedlings in the block. It had an attractive, denser, more compact branch structure and a slower growth pattern. The other seedlings growing in this population were indicative of normalthe species Magnolia virginiana var. australis with the exception of the selected individual seedling. While the 'Sweet Thing' seedling is shrubby and dense in its growth habit, the other seedlings in the block are tall and leggy in growth. After 14 years, the other seedlings in the block are 20'

or more in height and approximately 8' wide and very open in stature. In contrast, the 'Sweet Thing' cultivar is approximately 8' tall by approximately 6' wide. After monitoring the initial group for several years, it is apparent that while seedlings of the typicalspecies Magnolia virginiana var. australis-seedlings grow tall and leggy, the Magnolia virginiana var. australis 'Sweet Thing' remains small, compact, dense, and evergreen year after year.

[0007] As shown in the photographic drawings, the 'Sweet Thing' cultivar is very dense and full of foliage. The 'Sweet Thing' cultivar retains its foliage year round in the winter months in Zone 6b, which includes Middle Tennessee, as do typicaldoes the species Magnolia virginiana var. australis. As shown in more detail in the second and third photographic drawings, the foliage is an olive green on the upper surface and has a silvery sheen on the glaucous underside surface. The leaves are more lanceolate than is typical of the varietythe species Magnolia virginiana var. australis, measure approximately 7.6 cm to 16.5 cm in length and 2.85 cm to 4.52 cm in width, and are lustrous. They are not quite as long as, and slightly lighter green in color than; the typical species Magnolia virginiana var. australis.

[0008] As shown in the fourththird photographic drawing, the flower is cup-shaped, 10 to 12 cm across. The flower is white in color. The species typically Magnolia virginiana var. australis has more of a creamy white flower. The flower is fragrant with a citrus scent and has 9 to 12 petalstepals that and are approximately 4.5 cm to 5.5 cm long and 1.9 cm to 3.5 cm wide. The petalstepals are obovate, separate, involute, entire margin, obtuse apex, and fused at the base. The blooming season is from August June to October in Middle Tennessee and the blooms last about a week.

[0009] The 'Sweet Thing' cultivar is very winter hardy. The tree has proven to be evergreen in a Middle Tennessee climate Zone 6b (USDA Plant Hardiness Zone Map). However, in the severe winter of 1996, the parentoriginally discovered plant kept most of its leaves when temperatures reached -10° F (with a wind chill of -17° F). In contrast, the other *Magnolia virginiana var. australis* in the initial group of seedlings lost most of their leaves, and the low temperatures damaged some of the trees. Thus, the 'Sweet Thing' cultivar appears to have a greater cold tolerance than the typicalspecies *Magnolia virginiana var. australis*.

[0010] The 'Sweet Thing' cultivar is also able to endure drastic changes in the moisture level. The 'Sweet Thing' cultivar has been successfully grown without any irrigation. In addition, the parentoriginally discovered plant is planted close to a river, and has been completely submerged underwater, because of periodic flooding, at least four times since 1990. Thus, the 'Sweet Thing' cultivar thrives in moist soil conditions while tolerating the hot dry conditions of summer.

[0011] The 'Sweet Thing' cultivar has been successfully asexually propagated by asexual propagation. The proven means of asexual propagation has been rooted softwood cuttings. The propagation from the original 'Sweet Thing' Magnolia tree began in 1999 at Boyd Nursery. In 1998, Fernando Campbell Boyd III took cuttings from the original selected seedling. These cuttings were placed in a greenhouse at 6294 Manchester Hwy, Morrison, TN. Although two-thousand cuttings were stuck the first year, only six rooted. The next year cuttings were only taken off of one of the 'Sweet Thing' trees that had been rooted in 1998. The other five 'Sweet Thing' Magnolias were observed for 2 years. They retained all the characteristics of the original selected seedling. It has been

successfully propagated through at least four generations of asexual reproduction, with the highest rooting percentage (as much as 95%) coming from cuttings taken from the newest generation. The 'Sweet Thing' Magnolia has retained its outstanding unique features throughout each generation of new plants. Each generation has been stable, and reproduced true-to-type plants each and every time the plant has been propagated. [0012] The unique appearance and growth pattern of the 'Sweet Thing' cultivar make it well suited for a variety of landscaping uses. It can be used as an evergreen shrub or planted close together to create a novel and attractive hedge to obscure certain areas from view. It is also well suited for use as a foundation plant for larger buildings or in areas that are not large enough for a typicalthe species Magnolia virginiana var. australis. Since the 'Sweet Thing' Magnolia is evergreen with attractive, lustrous, olive green foliage, flowers with a nice fragrance, and is dwarf, it should be a welcome new landscape plant for small and large gardens or various landscape situations. In addition, the unique and attractive 'Sweet Thing' Magnolia will make a great show-piece for those desiring a rare or unusual Magnolia virginiana var. australis specimentree.

#### **Summary of the Invention SUMMARY OF THE INVENTION**

[0013] The following characteristics in combination distinguish the new tree named 'Sweet Thing' from other cultivars of *Magnolia virginiana var. australis*.

[0014] 1. The 'Sweet Thing' cultivar is a dwarf variant of the *Magnolia virginiana var*.

australis that has a smaller more bush-like appearance. Young asexually propagated trees, like the initially discovered tree, all tend to grow with a multi-stem trunk. Thus, it

is well suited for landscaping applications and areas where a typical Magnolia virginianathe species Magnolia virginiana var. australis is too large.

[0015] 2. The 'Sweet Thing' Magnolia has a longer, more slender leaf than a typical the species Magnolia virginiana var. australis that adds to its bush-like appearance. In addition, the slender leaves pose less of a clean up problem than the large, hard leaves of a typical Magnolia.

[0016] 3. The leaf is a lighter green than a typical the species Magnolia virginiana var. australis which contributes to the 'Sweet Thing' Magnolia's distinctive and pleasing appearance.

[0017] 4. The 'Sweet Thing' cultivar is more tolerant of extreme cold than a typical the species Magnolia virginiana var. australis, retaining its foliage year round in a Middle Tennessee climate despite temperatures of -10° F (with a wind chill of -17° F).

[0018] 5. The 'Sweet Thing' cultivar is able to endure drastic changes in the moisture level. The parentoriginally discovered plant has been grown, and is thriving, without any irrigation and tolerates the hot dry conditions of summer. In addition, the parentoriginally discovered plant has survived being repeatedly submerged by a nearby flooding river.

[0019] The 'Sweet Thing' cultivar has not been observed under all possible conditions and it is not known how the cultivar might respond to various climates.

#### **Brief Description of the Drawings**

BRIEF DESCRIPTION OF THE DRAWINGS

[0020] The first photographic drawing shows the parent originally discovered 'Sweet

Thing' plant at fourteen years of age at its home at the Sleepy Hollow Nursery 3506

Harrison Ferry Road, McMinnville, TN.

[0021] The second photographic drawing shows a close up of the foliage and an

emerging bloom of the 'Sweet Thing' cultivar.

[0022] The third photographic drawing shows a close up of the foliage and a fully

developed bloom of the 'Sweet Thing' cultivar.

[0023] The fourth photographic drawing shows a number of second generation 'Sweet

Thing' rooted cuttings vigorously growing at Boyd's Nursery6294 Manchester Highway

Morrison, TN.

**Detailed Botanical Description** 

**DETAILED BOTANICAL DESCRIPTION** 

[0024] The following observations, measurements, and values describe the parent

plantplants grown at Sleepy Hollow Nursery in McMinnville, TN-near Warren County,

TN. The actual appearance and characteristics of any individual will of course vary due

to horticultural practices and local conditions. The tree used for the description is about

14 years old. Color references are made to The Royal Horticultural Society Colour Chart

except where terms of ordinary significance are used.

Botanical Classification: Magnolia virginiana var. australis

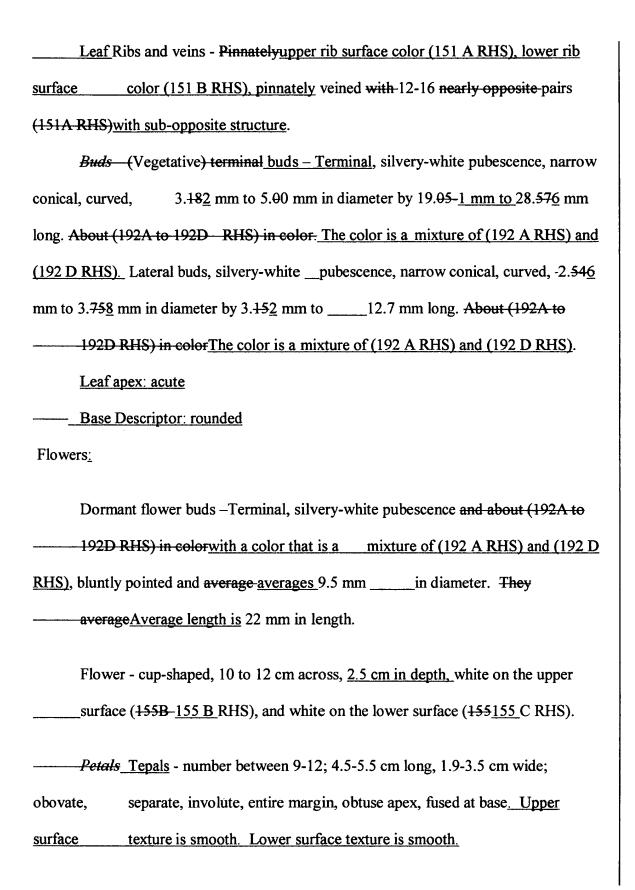
Commercial Classification: "Sweet Thing" Magnolia

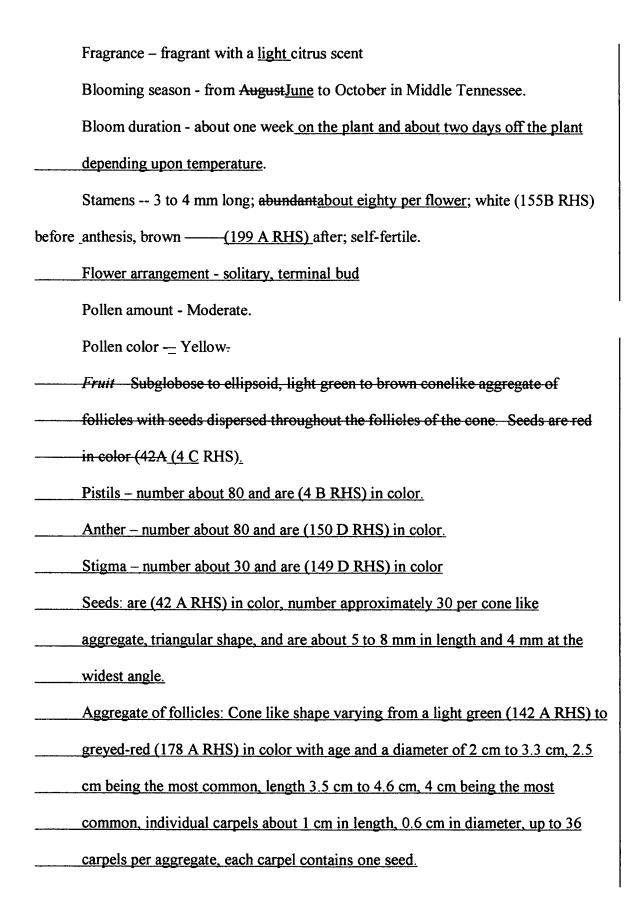
Origin: Seedling from planted group of seedlings.

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Parentage: Unnamed plant of Magnolia virginiana var. australis. Propagation: Asexual through softwood cuttings. Plant: Growth rate – slow to medium, average 15 cm per year. Form - Small multi-stem tree or bush. Shape – oval to round. Height – 8ft 244 cm in 14 years. Spread -6182 cm in 14 years. Density – Thick with foliage. Trunk Size  $-\frac{7}{2}$ 17.8 cm diameter at the base of the trunk at ground level at 14 years. Bark – (trunk): smooth, color is (197A to 199A197 A RHS) textured with tiny (1 mm) raised oval lenticels. Stem On the new growth of the stem, the color is (144 A-C RHS). There are five main stems on the parent plant. They range in caliper from 1/2" to 2 1/2". Branching arrangement - Sub-opposite, bush-like, and multi-stemmed. Angle of attachment: Ranges from 40 to 45 degrees with 45 being most prevalent. Internodal length: Matures branches range from 2.3 cm to 4.8 cm. Stem - On the mature stems the color is (197 A RHS). Typical observed length is up to 150.2 cm, diameter is from 1.3 cm to 6.4 cm. On the new growth of the stem, the color is a mixture of two colors (144 A RHS) and (144 C RHS). The arrangement of leaves is sub-opposite. The diameter of the new growth stem is

from 4 mm to 7.6 mm. The internodal length varies from 7.6 mm to 38.1 mm
with 20.9 mm being the average.
Lenticels - Tiny, but conspicuous, silver, slightly raised, oval, 1mm.
Branching arrangement – Bush-like, multi-stemmed, 'Sweet Thing' can be trained
to a single stem.
Leaves – Evergreen.
<u>Leaf</u> Length - Petiole 1.273-2.5 cm, average 2.1 cm; Lamina 7.66 cm to 16.5 cm
inlength -and 2.85 cm to 4.52 cm in width. The petioles average 2.8 mm in
diameter and are (144 A RHS) in color.
Average Leaf Width - 2.853.6 cm to 4.52 cm.
Form Leaf Shape – lanceolate, with rounded base.
<u>Leaf</u> Margin – entire.
<u>Leaf</u> Texture — smooth on upper and lower surfaces of the leaf; glossy above,
silvery-white beneath.
<u>Leaf</u> Quantity - abundant.
<u>Leaf</u> Color - Upper side: <del>light green (137A to 137B RHS).</del> Lower side: glaucous
(silvery-green) (188B to 188D RHS) the color is a mixture of (137 A RHS) and
(137 B RHS).
Lower side: glaucous, the color is a mixture of (188 B RHS) and (188 D RHS).





Peduncles: 10-40 cm in length, with 30 cm being the most common, 3.9 mm diameter, coloration is (144 B RHS).

Aggregate of follicles: Cone like shape with a diameter of 2 cm to 3.3 cm, 2.5 cm being the most common, length 3.5 cm to 4.6 cm, 4 cm being the most common, individual carpels about 1 cm in length, 0.6 cm in diameter, up to 36 carpels per aggregate, each carpel contains one seed.

Disease and pest resistance: No known susceptibility to diseases and pests common to Magnolia virginiana var. australis.

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# <u>Claim</u>

# **CLAIM**

We claim:

1. A new and distinct cultivar of Sweet Bay Magnolia tree named 'Sweet Thing' as illustrated and described herein.

## **ABSTRACT**

A new and distinct *Magnolia virginiana var. australis* cultivar, named 'Sweet Thing' Magnolia that is characterized by its distinct dwarf, bush-likecompact and uniform growth habit, slender, olive evergreen foliage (which remain—even in winter), fragrant citrus scented flowers, and vigorousits ability to withstand extreme variations in temperature and moisture lower winter temperatures than *Magnolia virginiana var*.

australis.